

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization  
International Bureau**



**(43) International Publication Date  
7 April 2005 (07.04.2005)**

PCT

(10) International Publication Number  
**WO 2005/032057 A1**

(51) International Patent Classification<sup>7</sup>: H04L 12/28 (74) Agent: SHINSUNG PATENT FIRM; 2F, Line Bldg., 823-30, Yeoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

(21) International Application Number: PCT/KR2004/002532

(22) International Filing Date: 2 October 2004 (02.10.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:  
10-2003-0068892 2 October 2003 (02.10.2003) KR

(71) Applicant (for all designated States except US): DIDEONET CO., LTD. [KR/KR]; 3F, Pille Bldg., 131, Samjeon-dong, Songpa-gu, Seoul 138-840 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KANG, Yong-II [KR/KR]; #109-302 Garak Apt., Garak-dong, Songpa-gu, Seoul 138-160 (KR). KANG, Sung-II [KR/KR]; #122-1001 Dongasolrecrecy Apt. 1162, Bojeong-ri, Guseong-eub, Yongin-si, Gyeonggi-do 449-940 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

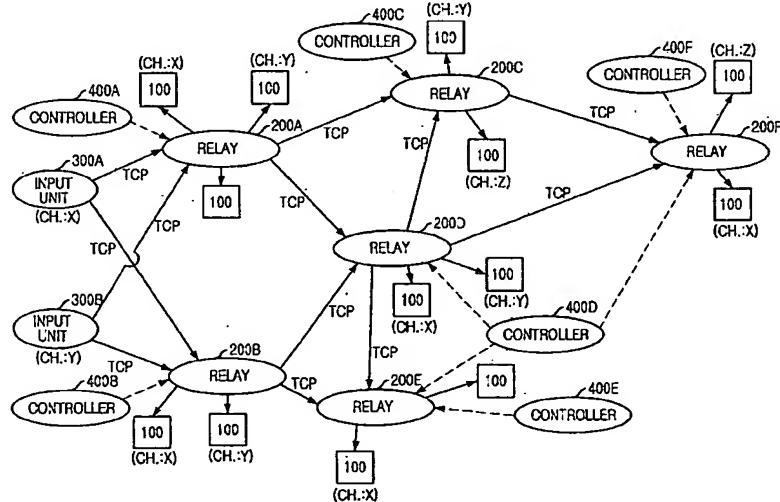
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:  
— with international search report

— with international search report

[Continued on next page]

**(54) Title: METHOD FOR DISTRIBUTING STREAM DATA BASED ON MULTI-PATH SCHEME USING TCP IN REAL TIME**



**(57) Abstract:** A method for distributing stream data based on a multi-path scheme using Transmission Control Protocol (TCP) and a computer-readable recording medium for storing a program that implements the method are disclosed. The method includes the steps of: requesting an input unit to transmit stream data; receiving the stream data generated in the input unit based on TCP scheme; assigning the received stream data to a specific channel; confirming a relay that requests stream data transmission of the specific channel; transmitting the stream data to one or more relays that request stream data transmission of the specific channel according to transmission control information of a controller; and receiving the stream data of the specific channel from one of neighboring relays.